

burg, Va., first killing frost on the 13th; Purdy, Tenn., 1d; Norfolk, 17th; Jacksonville, Fla., 28th; Montgomery, 8th, 12th and 17th; Nashville, 12th and 13th; Memphis, 12th, 16th, 19th, 20th, 21st and 31st; Augusta, Ga., 17.

Ice was first formed at Fort Wallace, Kan., on the 15th; Fort Wayne, Mich., 12th; Decatur, Ill.; Richmond, Ind.; Rockford, Iowa, 11th; Mt. Desert, Maine; Fallston, Md.; Florida, Mass., 13th; Moorehead, Minn., 1st; Cooperstown, N. Y., 14th; Hillsboro', O., 12th; Cleveland, O., 2d; Fallsington and West Chester, Pa., 13th; Edgefield, S. C., 17th; Purdy, Tenn., and Mt. Solon, Va., 12th; Salem, W. Va., 2d; Embarrass, Wis., 1st; Powhatan Hill, Va., 13th; Newport, R. I., 13th; Keokuk, Iowa, 12th; Indianapolis, 11th and 12th; Milwaukee, 10th and 11th; Nashville, 17th; Detroit, 12th.

PRECIPITATION.

This item is graphically shown on Chart No. III, and numerically by the table in the lower left-hand corner. It will be seen from the data thus furnished that the largest rainfall has been in the Upper Lake region and there only, except in Oregon, has any noteworthy excess of rain been reported for October. Large deficiencies have occurred in the Middle States and in the lower Missouri valley, but elsewhere there has been no very marked departure from the normal. The largest excess in Oregon does not apply to California.

Among the stations at which the smallest rainfall occurred, were—Colorado Springs, Col. Ter., 0.13 inch; North Platte, Neb., 0.14 inch; Cheyenne, W. T. 0.06 inch; Santa Fé, New Mexico, 0.06. Among the largest rainfalls reported, were at Alpena, Mich., 6.55 inches; Eastport, 7.50; Grand Haven, 6.15; Portland, Oregon, 6.73.

Snow—Snow fell at Albany on the 30th and 31st; Portland, Me., Barnegat, N. J., New York City, New Haven, Cleveland and Toledo, 31st; Wytheville, Va., on the 16th and 19th; Oswego, N. Y., 12th and 31st; Erie, Penn., 12th; Escanaba, Mich., 5th and 10th; Chicago, 15th and 18th; Logansport, Ind., 11th; Milwaukee, Wis., 26th; Detroit, Mich., 11th; Rochester, N. Y., 16th and 17th; West Chester, Penn., Philadelphia, 31st; Blooming Grove, Pa., 10th and 31st; Carlisle and Williamsport, Pa., 31st; Salem, Greenbrier county, W. Va., 11th and 16th; Woodlawn, Md., 31st and Asheville, N. C., the 16th.

Hail fell at Detroit on the 29th; Nashville, 30th; Keokuk on 29th; Burlington, Iowa, 29th; Springfield, Mass., on the 26th, and at Rolla, Mo., 29th. (*See Local storms.*)

Rainy days average as follows: For New England, 12; Middle Atlantic States, 9; Southern States, 7; Lake region, 17; Ohio valley and Northwest, 8.

Cloudy days, (other than those on which rain or snow fell,) New England, 5; Middle States, 2; Southern States and Ohio valley, 3; Upper Lake region, 4; Northwest, 5.

RELATIVE HUMIDITY.

The relative humidity for the month, averages as follows in the different districts: New Jersey and New England coasts, 74 per cent.; south Atlantic and Gulf coasts, 72; interior portions of the New England, Middle and Southern States, 66; Lower Lake region, 68; Upper Lake region, 71; Ohio valley and the Northwest, 63. As usual it has been lowest at the Rocky mountain stations, amounting to 48 per cent. at Colorado Springs; 40 at Cheyenne; 33 at Denver and only 24 at Santa Fé.

WINDS.

The prevailing winds of the month will be found indicated by the arrows, flying with the wind, on Chart No. II. Northwesterly and southwesterly winds have the pro-